In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1. (Original) A dual-bit split gate flash memory comprising:
 - a plurality of memory cells wherein each memory cell comprises:
 - a select gate overlying a substrate and isolated from said substrate by a select gate oxide layer;
 - a first and second floating gate on opposite sidewalls of said select gate and isolated from said select gate by an oxide spacer; and
 - a control gate overlying said select gate and said first and second floating gates and isolated from said select gate and said first and second floating gates by a dielectric layers; and

source and drain regions within said substrate and shared by adjacent said memory cells.

2. (Original) The memory according to Claim 1 wherein a channel length under said select gate and said first and second floating gates in between about 0.05 and 0.07 microns in 0.18 micron technology.

- 3. (Original) The memory according to Claim 1 wherein said select gate comprises:
 a polysilicon layer having a thickness of between about 1000 and 1200 Angstroms; and
 a dielectric capping layer having a thickness of between about 800 and 1000
 Angstroms.
- 4. (Original) The memory according to Claim 3 wherein said dielectric capping layer comprises high temperature oxide.
- 5. (Original) The memory according to Claim 1 wherein said select gate oxide has a thickness of between about 29 and 35 Angstroms.
- 6. (Original) The memory according to Claim 1 wherein said oxide spacer comprises high temperature oxide and has a width of between about 400 and 500 Angstroms.
- 7. (Original) The memory according to Claim 1 wherein first and second floating gates are isolated from said substrate by a tunneling oxide having a thickness of between about 80 and 100 Angstroms.
- 8. (Original) The memory according to Claim 1 wherein said first and second floating gates have a thickness of between about 1300 and 1600 Angstroms and a length of between about 500 and 700 Angstroms.

- 9. (Original) The memory according to Claim 1 wherein said control gate comprises polysilicon having a thickness of between about 2000 and 2400 Angstroms.
- 10. (Original) The memory according to Claim 1 wherein said dielectric layer comprises a first layer of high temperature oxide, a second layer of silicon nitride, and a third layer of high temperature oxide, each layer having a thickness of between about 60 and 70 Angstroms.

11. - 25. (Canceled)